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## PRE-APPEAL BRIEF REQUEST FOR REVIEW

Docket Number (Optional)

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on March 29, 2009

Signature Robert MollTyped or printed Robert Moll  
name

Application Number

10/071,496

Filed

March 1, 2002

First Named Inventor

Brian Chess

Art Unit

2157

Examiner

Avi M. Gold

Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request.

This request is being filed with a notice of appeal.

The review is requested for the reason(s) stated on the attached sheet(s).  
Note: No more than five (5) pages may be provided.

I am the

 applicant/inventor. assignee of record of the entire interest.  
See 37 CFR 3.71. Statement under 37 CFR 3.78(b) is enclosed.  
(Form PTO/SB/96) attorney or agent of record.Registration number 33,741Robert Moll

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March 29, 2009

Date

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required.  
Submit multiple forms if more than one signature is required, see below.

Total of One forms are submitted.

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## **PRE-APPEAL BRIEF REQUEST FOR REVIEW ARGUMENTS**

2 The invention relates to client-side caching systems and methods that reduce  
3 page latency and bandwidth usage of Internet based and web applications.  
4  
5 In an embodiment, a server computes a cookie value based on the last version of  
6 a resource (e.g. a web page). When an application user uses a browser to request  
7 a page from the server, the server responds with a small non-displayed page and  
8 a client-side script. The client-side script appends the cookie value to the original  
9 request and the browser automatically re-requests the page with the appended  
10 cookie value. If the most recent version of the page is in the browser cache, the  
11 browser gets a cache hit, which means the page is retrieved from the browser  
12 cache rather than from the server, rapidly displaying the page to the user. If, on  
13 the other hand, there is only an older version of the page in the browser cache,  
14 there is a cache miss (because the client-side's rewritten request will not match  
15 any request in the browser cache) and the browser will send the request to the  
16 server to retrieve the most recent version of the page.

17 Claim 1 recites a client-side caching system, comprising:

18 a client for issuing a request based on user selection for a resource on a  
19 server; and

20 a server for sending a response including a cookie and a client-side script  
21 to the client, wherein the cookie value represents the last version of the resource,  
22 and the client-side script appends the cookie value to the request for a resource  
23 such that the client automatically re-requests the resource with the appended  
24 cookie value so that if the most recent version of the resource is in the client  
25 cache, the resource is retrieved from the client cache rather than from the server,  
26 and if not, the resource is retrieved from the server.

28 In sections 1-2, the Office action rejects claims 1-18 as being unpatentable over  
29 U.S. Patent No. 6,510,439 B1 to Rangarajan et al. (Rangarajan) and U.S. Patent  
30 Publication No. 2002/0032701 to Gao et al. (Gao).

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1       Specifically, the Office action on pages 2-3 asserts (1) Rangarajan teaches a  
2       client-side caching system except a client-side script that automatically re-  
3       requests a resource, (2) Gao teaches a client-side script that automatically  
4       requests updated data, and (3) it would have been obvious to one of ordinary skill  
5       at the time of the invention to modify Rangarajan in view of Gao to use a client-  
6       side script that automatically re-requests a resource. One would be motivated to  
7       do so because it is more efficient for the script to run on the client.

8       Rangarajan and Gao cannot establish a **prima facie** case of obviousness, because  
9       they fail to disclose the client-side script function recited in claim 1:

10       1)       Claim 1 requires a client-side script function that appends the cookie  
11       value to the request for a resource such that the client automatically re-requests  
12       the resource with the appended cookie value so that if the most recent version of  
13       the resource is in the client cache, the resource is retrieved from the client cache  
14       rather than from the server, and if not, the resource is retrieved from the server.

16       2)       The Office action concedes that: "Rangajan fails to teach the  
17       limitation further including the use of client-side script that automatically re-  
18       requests a resource" (See page 3, paragraph 3).

20       3)       However, on page 3, paragraph 4, the Office action asserts this  
21       missing limitation is disclosed by Gao (paragraph 0047).

22       4)       However, Gao fails to disclose it (See Gao paragraphs 0045-0051). As  
23       shown in Figure 5, a client 102 sends a request for a web page to the web server  
24       104 (entry "1"), the web server returns an HTML file to the client (entry "2"), the  
25       client displays the file and requests additional files (e.g. images) (entry "3"), the  
26       web server returns the requested files and generates a Javascript file that will  
27       cause the client's browser to generate a request for update data (entry "4").

29       5)       Gao states: "When the JavaScript code is received, it will be  
30       automatically interpreted by the browser, which will cause the script program to

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1       be executed by the browser. In accordance with the Invention, the JavaScript  
2       code will cause the browser to request another page, for a second Web page.  
3       This operation is represented by the fifth entry of FIG. 5, "5. RECEIVE SCRIPT,  
4       INTERPRET CODE, REQUEST UPDATE PAGE." The JavaScript code in  
5       accordance with the Invention specifies that the requested second page will not  
6       be displayed by the browser. That is, the data contained in the second (update)  
7       page will be received, but no page will be displayed. Thus, the requested page  
8       comprises a "phantom" page (hence the dashed line representation of FIG. 2).  
9       When the Web server receives the request for the phantom page after operation  
10      (5), it will generate the requested data and will send it (otherwise formatted as an  
11      HTML page) to the browser. The sending operation is represented in FIG. 5 by the  
12      sixth entry, "6. SEND REQUESTED HTML DATA FOR PHANTOM PAGE" (Gao  
13      paragraph 0049, emphasis added).  
14

15       6)      Gao's JavaScript code causing the browser to request a second Web  
16       page indicates it is not a "re-request of the resource" that is, the first page  
17       requested by the user. Further, no user requests a non-displayed second page,  
18       known as a phantom page (Gao paragraph 0049). And what happened to the  
19       client-side script that appends a cookie value to the request in Gao? Gao  
20       discloses no cookie much less a cookie representing the last version of the first  
21       web page. The Office action limits its attention as to whether the Gao client-side  
22       script causes the client to automatically re-request the resource and it doesn't.  
23

24       7)      Gao's paragraph 0050 says the client browser receives the requested  
25       update data, then the browser processes it according to the client-side script for  
26       display in the first web page. Could this update data be "the resource" first  
27       requested by the user? No, that is the first web page. This update data is not  
28       being "re-requested." This update data is being requested for the first time! As  
29       shown in Figure 5 and paragraphs 0046-0050, Gao requests the first web page  
30       once (entry "1") then requests the update data (or page) once (entry "5") then  
      displays them together (entry "7"). Thus, Gao fails to disclose a client-side script  
      such that the client "automatically re-requests the resource" as recited in claim 1.  
3

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1        8) It is legal error to ignore these claim limitations in analysis. See e.g.,  
2        *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) where the Federal  
3        Circuit held a reference did not render a claim prima facie obvious because the  
4        examiner ignored that a claim limitation was absent in the reference.

5        9) In the amendment dated July 7, 2008, the applicants argued that  
6        Rangarajan does not disclose a client-side caching system because Rangarajan  
7        never uses the term "cache" or "caching" or "client cache" or "client-side cache."  
8        The Office action disagreed. On page 11, the Office action states "documents are  
9        kept/cached on the client" and on Rangarajan col. 7, lines 8-44, "there is an  
10      appropriate document sent to a client via a URL, which would be inherently  
11      stored in ... the client cache." In response to Office action on pages 11-12, we  
12      incorporate by reference the remarks of our amendment of July 7, 2008. Further,  
13      whether or not Rangarajan and Gao describe a client-side caching system misses  
14      the point: they fail to disclose the client-script function recited in claim 1 that  
15      solves the problem of reliably providing the last version of the resource while  
16      reducing latency and bandwidth usage.

17      In view of the above, claim 1 is allowable over Rangarajan and Gao.

19      Claims 2-4 are allowable due to dependency on claim 1.

21      Contrary to the Office action on page 4, Rangarajan fails to describe the response  
22      includes a non-displayed relatively small page and fails to describe a client-side  
23      script in the entity body of the response as recited in claim 3.

24      Contrary to the Office action on pages 4-5, Rangarajan does not teach claim 5 for  
25      the reasons discussed in connection with claim 1.

27      Contrary to the Office action on page 5, Rangarajan does not teach an application  
28      server inserting a client-side script into the entity body of the response as recited  
29      in claim 6. In fact, Rangarajan fails to even describe "a server sending a script to  
30      the client" as asserted on page 3 of the Office action. Rangarajan's Figure 1 and

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1 col. 7, lines 8-16 and col. 7, lines 31-44 describe the server-side (e.g., a CGI  
2 program, state management server 12, registration table 12, HTTP server 16) in a  
3 dotted box and the client-side as end user 24. Rangarajan's col. 9, line 65 - col. 10,  
4 line 11 describe the HTTP server as sending a cookie and a document to a client.

5 **Claim 7 is separately patentable, since Rangarajan fails to describe the server**  
6 **setting the cookie value by determining the last modified time of each web page**  
7 **in the same class as the web page which is the subject of the request, and setting**  
8 **the cookie value to the maximum value of the last modified times.**

10 **Claim 8 is separately patentable, since Rangarajan fails to describe the server**  
11 **setting the cookie value by determining the last modified time of each web page**  
12 **In the same class as the web page which is the subject of the request, and setting**  
13 **the cookie value to the maximum value of the last modified times.**

14 Contrary to the Office action on pages 6-8, Rangarajan and Gao do not teach the  
15 claims 9-14 for reasons similar to that discussed in connection with claim 1.  
16

17 **Claim 14 is separately patentable, since Rangarajan fails to describe the server**  
18 **setting the cookie value by determining the last modified time of each page in the**  
19 **same class as the page which is the subject of the request, and setting the cookie**  
20 **value to the maximum value of the last modified times.**

21 Contrary to the Office action on pages 8-9, Rangarajan and Gao do not teach  
22 claims 15-17 as discussed in connection with claim 1.  
23

24 Contrary to the Office action on page 10, Rangarajan and Gao do not teach claim  
25 18 for reasons similar to that discussed in connection with claim 1. It is  
26 respectfully submitted that the application is in condition for allowance.

Respectfully Submitted,

Robert. 9/19/19

**Robert Moll, Reg. No. 33,741**